

# RIYA BANSAL V

Alliance Orchid Springs, Korattur, Chennai-76

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## Education

### Vellore Institute Of Technology, Chennai

*Bachelor of Science in Computer Science with specialization in Cyber Physical Systems*

Sep 2022 – May 2026

Chennai, Tamil Nadu

## Relevant Coursework

- Data Structures
- Algorithms Analysis
- Operating Systems
- Computer Architecture
- Software Methodology
- Database Management
- Internet Technology

## Experience

### Student Council Member

Jan 2024 – Dec 2024

### Program Representative of CSE CPS

Jan 2024 – Dec 2024

### IEEE Women in Engineering VITC

*Management Lead*

Jan 2024 – Dec 2024

### The Linux Club VITC

*Advisory*

Sep 2023 – Dec 2024

### Voice-IT VITC

*Hindi RJ Lead*

Sep 2023 – Dec 2024

## Projects

### Automatic Room Lighting System | 8051 Microcontroller

July 2023

- Developed an automatic room lighting system using the 8051 microcontroller to enhance energy efficiency.
- Implemented sensors to detect human presence and control the lights accordingly.
- Designed and programmed the microcontroller to interface with sensors and control relays for switching lights on and off.

### Automated Object Sorting System | Python, OpenCV

Aug 2023

- Developed an automated object sorting system based on color classification using the Python programming language.
- Implemented computer vision techniques to detect and classify objects by color.
- Designed and tested the system to ensure accurate sorting, achieving a high level of precision in object classification.

### Farm Management System | HTML, CSS, JavaScript, PHP, SQL

Feb 2024

- Developed a web-based Farm Management System with distinct interfaces for farmers, landlords, and administrators.
- Implemented features for farmers to access agricultural information, provide confidential feedback, and report discrepancies.
- Enabled landlords to manage resources, add or delete plants/medications, and collaborate via email.
- Equipped administrators with tools for data management, monitoring, and addressing feedback to ensure transparency and efficiency.

## Technical Skills

**Languages:** Python, Java, C, C++, HTML/CSS, JavaScript, SQL

**Developer Tools:** VS Code, Cisco Packet Tracer, LTSpice, ModelSim, Keil, MATLAB

**Technologies/Frameworks:** Linux, GitHub

## Certifications

### Build Your Own AI Tools | Microsoft Azure Partner

Aug 2023

### DevOps | Reskill and supported by Microsoft Azure

Aug 2023

### Python, C, C++ | IIT BOMBAY

Apr 2023

### HELM-Start 'U'p Modules | Heartfulness Institute

Jun 2023

## Accomplishments

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- Participated in the Bhasha Techathon and was selected for the final round, demonstrating strong technical skills and innovative solutions; currently awaiting final location details for the upcoming round.
- Part of #Include Her Cohort 3.0 - DevOps Edition, offered by Reskill in association with Azure Developer Community and supported by Microsoft Azure.
- Participated in Smart India Hackathon.
- Achieved the Best Student Award in the Primary Section in 2014, as featured in a newspaper.
- Represented Velammal Vidhyashram, Surapet, at the TIMESEDUCATION AWARDS, where the school received top recognition in the national curriculum for the North Zone, as reported in The Times of India.